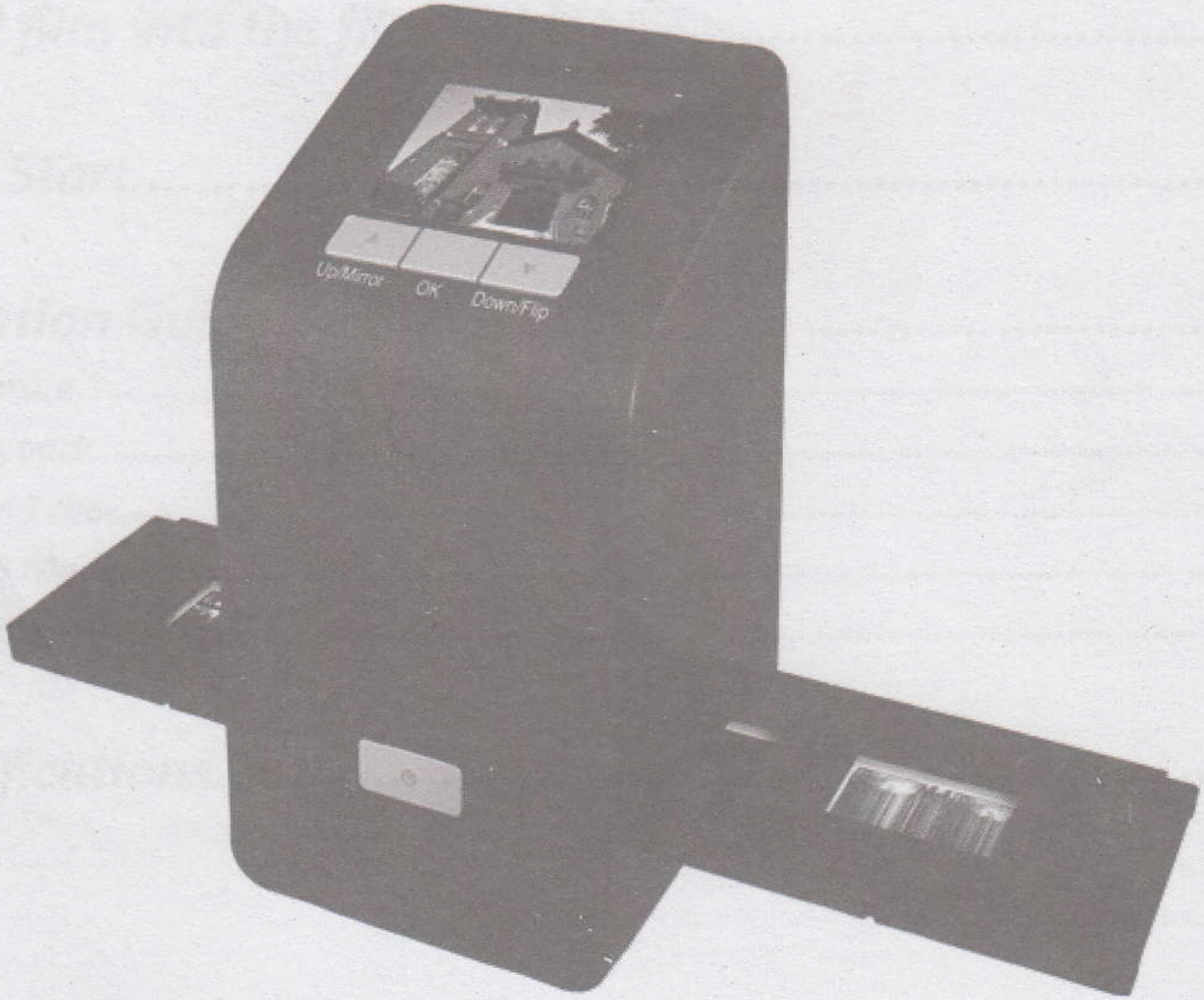
FS-II-14MB-2.4



User Manual

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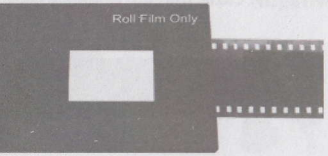
Install the Roll Film into holder:

1. Take out the roll film holder from package

2. Insert roll film into film slot



3. Pull out the roll film in another side

e

o avoid mirror image, follow the serial numbers (from left to right) on top of film when install egative film into holder

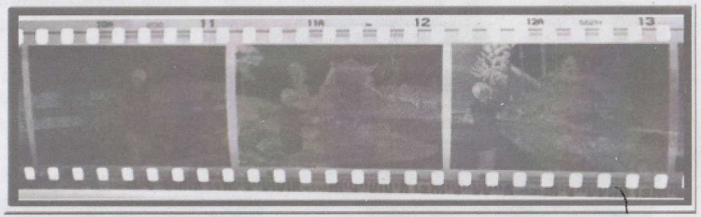


Figure 1

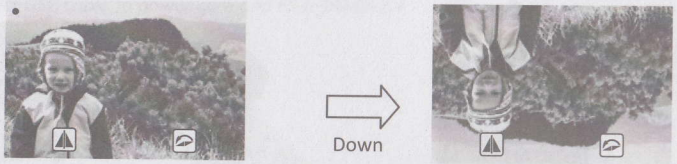
f the image is upside down [see fig.2], the image can be corrected by Flip function in hard key of evice before capture, or enter playback edit menu after capture [see fig.3 and fig.4].

Figure 2

Down/Flip button
(Flip hard key)

Press hard key on top of device in live view

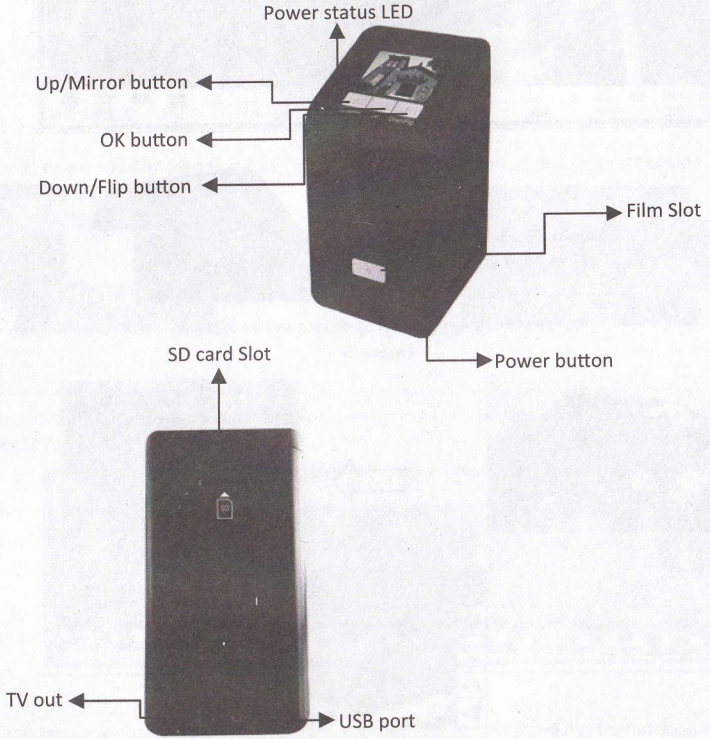
Figure 3



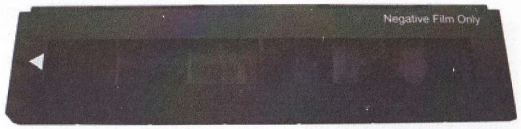
Playback mode menu

Figure 4

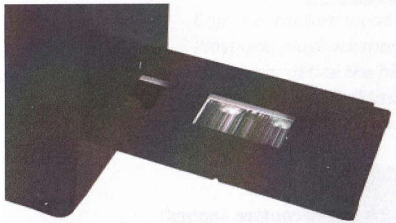
Quick Start



1. Put Film onto the film cartridge

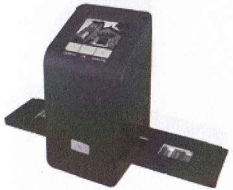


2. Insert the film cartridge into FS-II-14MB-2.4

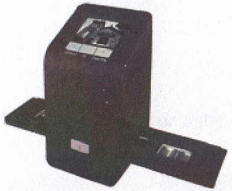


3. Connect USB cable to power core and FS-II-14MB-2.4

4. Turn on Device by power button

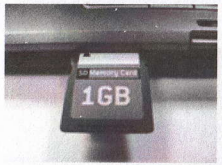


5. *Press OK button to capture the image*

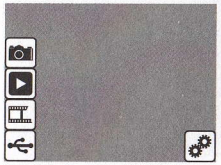


6. *Follow the menu on display for scanning*

7. *After finished the capture, take out the SD card which stored capture images*

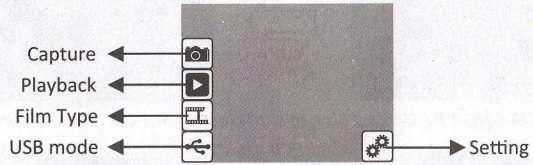


8. *Or read picture from PC by MSDC mode*



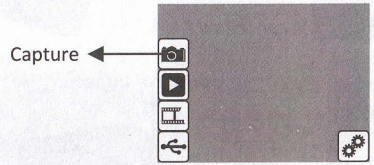
IV. Operation Guide

Home: Main menu



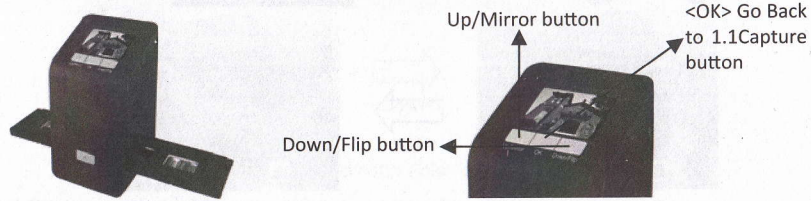
- *Capture: capture mode (default)*
- *Playback: playback mode*
- *Film Type: define the film type which loaded in cartridge*
- *USB mode: MSDC (Mass Storage Device Class) mode*
- *Setting: TV out and format option*

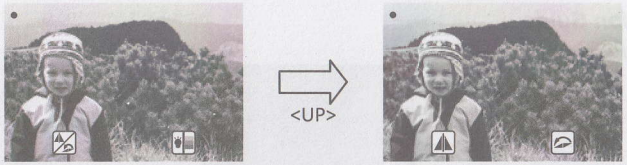
1. Capture



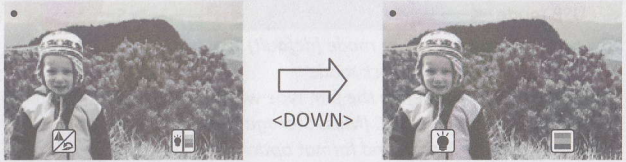
After welcome page, above menu will remains for 5 sec. User can press up/down button for desired menu. Or system will auto enter Capture mode if there is no action during this 5 second period.

1.1 Capture: <Up>/<Mirror> (Hard Key)



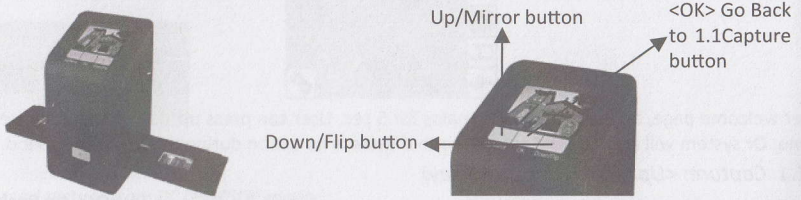


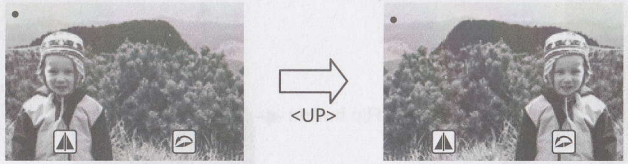
- *Press < Up > button to enter Mirror/Flip adjustment (see Chapter 1.2)*



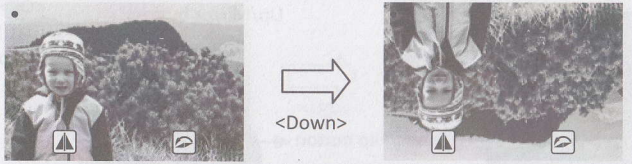
- *Press < Down > button to enter Brightness/Color adjustment (see Chapter 1.3)*

1.2 Capture: <Up>/<Mirror> - Flip / Mirror (Hard Key)



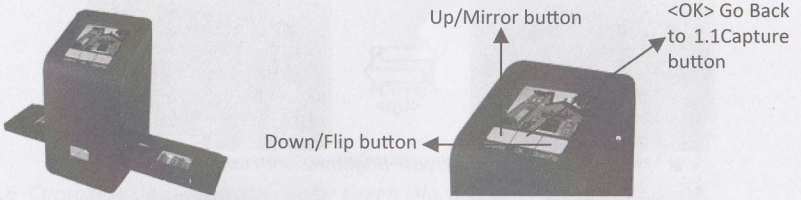


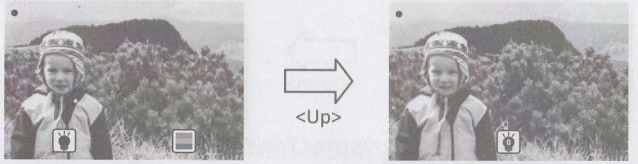
- *Press < Up > button to change image left to right*



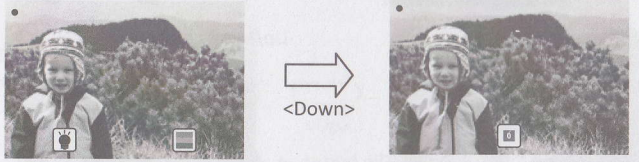
- *Press < Down > button to upside down image*

1.3 Capture: <Up>/<Mirror> - Brightness/Color (Hard Key)



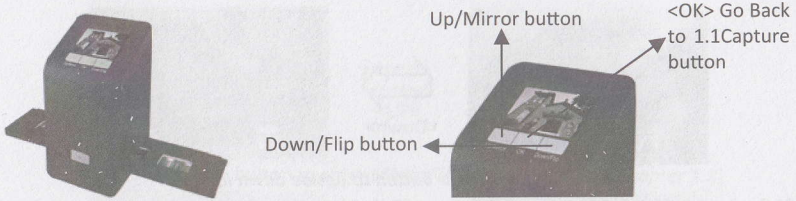


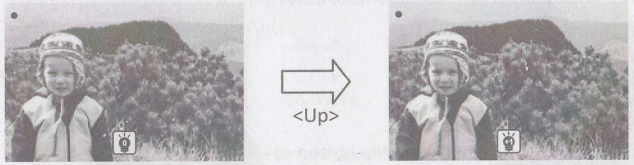
- *Press < Up > button to enter Brightness adjustment (See Chapter 1.4)*



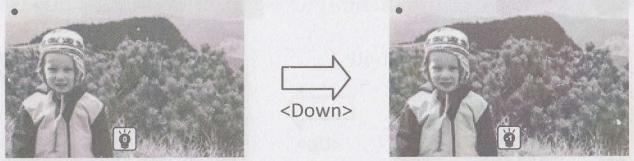
- *Press < Down > button to enter Color adjustment (See Chapter 1.5)*

1.4 Capture: <Up>/<Mirror> - Brightness (Hard Key)



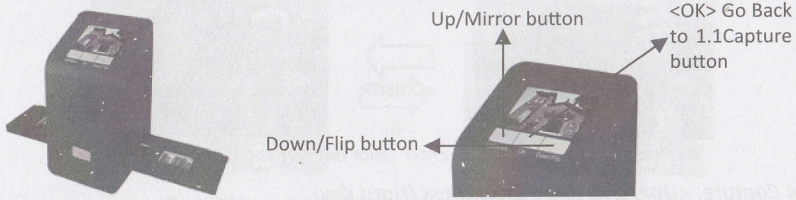


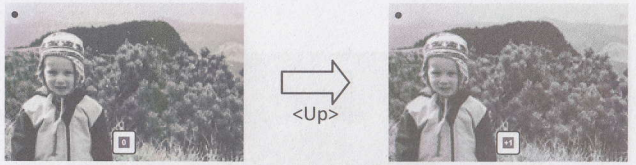
- *Press <Up> button to increase Brightness with ranges of -3 to 3*



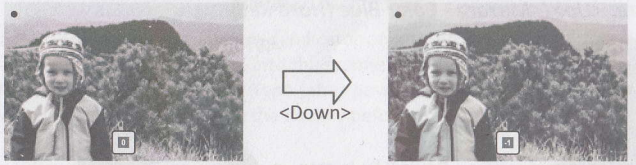
- *Press <Down> button to decrease Brightness with ranges of -3 to 3*

1.5 Capture: <Up>/<Mirror> - Color Red (Hard Key)



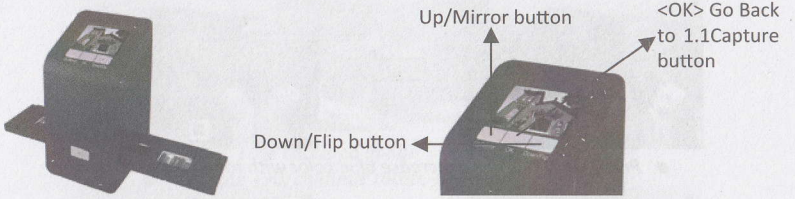


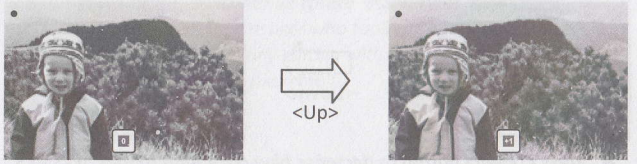
- *Press <Up> button to increase red color with ranges of -3 to 3*



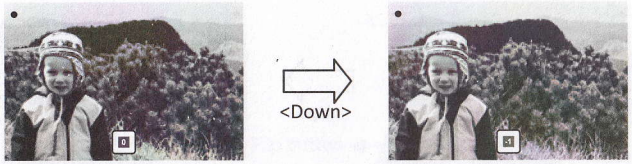
- *Press <Down> button to decrease red color with ranges of -3 to 3*

1.6 Capture: <Up>/<Mirror> - Color Green (Hard Key)



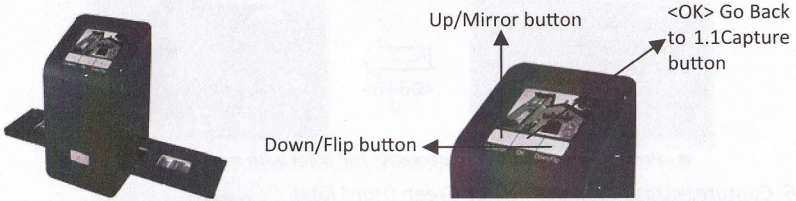


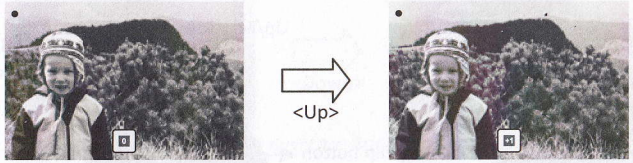
- *Press <Up> button to increase green color with ranges of -3 to 3*



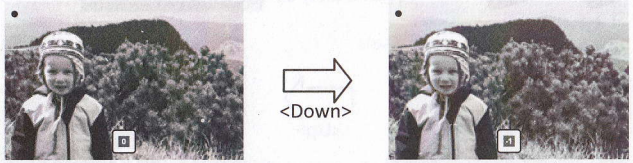
- *Press <Down> button to decrease green color with ranges of -3 to 3*

1.7 Capture: <Up>/<Mirror> - Color Blue (Hard Key)



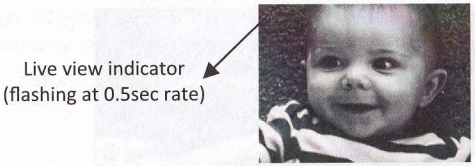


- *Press <Up> button to increase blue color with ranges of -3 to 3*



- *Press <Down> button to decrease blue color with ranges of -3 to 3*

1.8 Capture mode



Once enter capture mode, there will be a red indicator on left top corner to indicate it is in live view mode. When the film cartridge is inserted into the scanner slot, the image always shows the positive image according to previous defined Film Type (after power on. the Film Type is default to negative film). Reconfirm the film position through the display before press OK button.

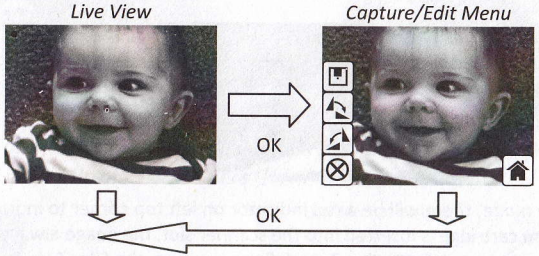
1.9 Capture: Edit Menu

- *Save: save captured image*
- *Rotate +90: continue rotate +90 degrees*
- *Rotate -90: continue rotate -90 degrees*

(this is for adjusting the user who took the portrait picture)

- *Cancel: cancel any editing with this image*
- *Home: Back to main menu*

1.10 Live View -> Capture/Edit Menu

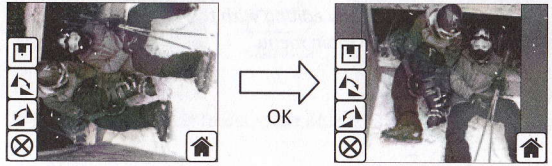


Once press OK button in live view, the edit menu will be appeared. When user press OK button again, the current image will be saved into SD card. The display will return to live view again.

1.11 Capture: Save

Once user press OK button on top of FS-II-14MB-2.4, preview (live view) image will be selected and shown on the TFT which will take between 3-4 second with 4 icons shown on the left side of the screen. Save icon will be highlighted for user to confirm the saving by OK button. After the above step, display goes back to live view mode (preview).

1.12 Capture: Rotate +/-90 degrees

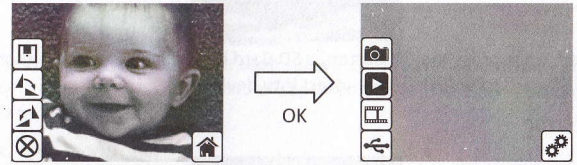


User can apply the up/down button for further editing (rotate +90/-90). Once user confirm rotate +90 degrees, they can press the OK button, the image will be rotate +90 degrees and cursor will remain at Save. Press OK button again will save the rotated image to SD card and screen will return to live view. For continuously rotate +90 degrees, move cursor to rotate again and press OK.

1.13 Capture: Cancel

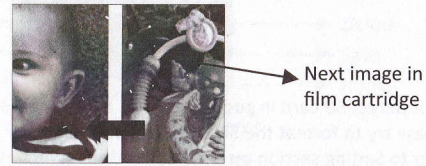
Or select Cancel and press OK button to cancel any of the editing step with present selected image and FS-II-14MB-2.4 goes to live view mode (nothing will be saved onto the SD card).

1.14 Capture: Home



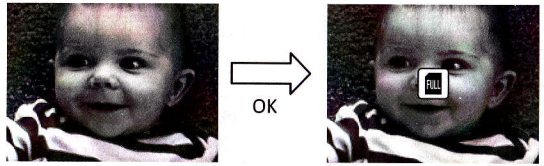
Go back to main menu, press OK button when select Home icon.

1.15 Exit from Edit mode back to Capture mode (Live View)



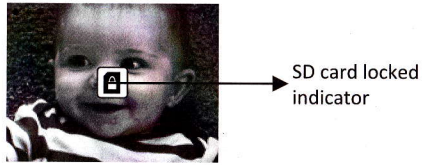
Once User presses OK button for save or cancel option, display will return to capture mode/live view. Then, user can move the film cartridge to next target film to capture.

1.16 Memory full



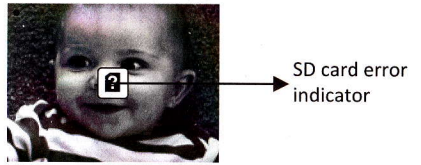
Once the internal memory or SD card is full, user can see a SD card full once press OK button. User has to down load the images to PC or replace another SD card for continue capture.

1.17 SD card locked



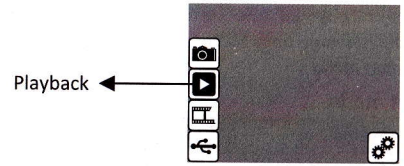
If the SD was locked, once press the OK button, a SD Card locked icon displays on screen. Please do slide the switch of SD card to unlock before insert into device.

1.18 SD card error



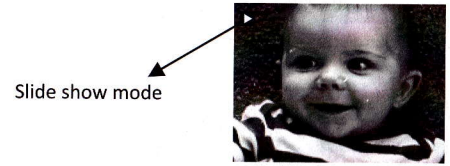
If scanner cannot detect SD card in good condition, a warning icon with question mark will be shown on display. Please try to format the SD card or replace another proper SD card for continue further operation. (Refer to Setting section on page 25.)

2. Playback



Press Down button to Playback mode when power on FS-II-14MB-2.4 or access the main menu by Home icon if during operation. Press OK button to confirm the selection.

2.1 Playback: Auto Slide Show



Once user enter playback mode (default to slide show), 2.4 TFT will auto display all images stored in SD card with 2 seconds interval from previous captured image. User can also stop the slide show mode by press OK button.

2.2 Playback: Edit Menu

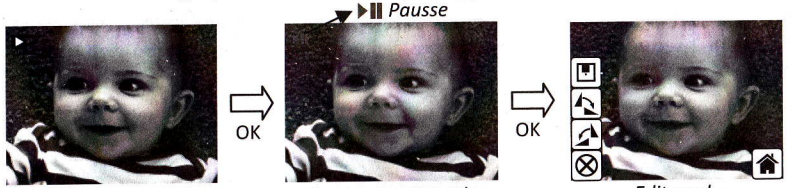
- *Rotate +90: captured image rotate +90 degrees*
- *Rotate -90: captured image rotate -90 degrees*
- *Mirror: change image left to right*
- *Flip: upside down image*

- *Exit: returns to Slide show*
- *Delete: delete this picture stored in SD card*
- *Save: save the modified image onto SD card*
- *Home: returns to main menu*

2.3 Playback: Slide mode -> Edit mode

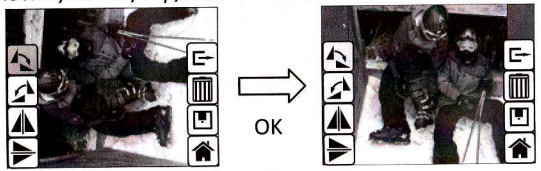
User can interrupt (stop) the slide show mode to stand alone playback mode (single picture playback) by press OK button. (Pause slide show) Then user is able to scroll each picture by up/down button. Once user select the picture stored in SD card which intended to be modified, then use OK button again to bring out the edit mode for modification

2.4 Slide Show -> Single picture -> Edit mode



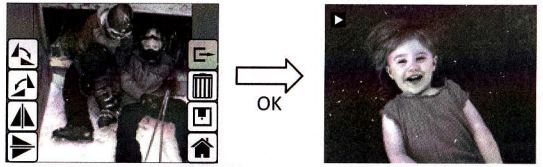
Use Up/Down button to scroll picture to be modified

2.5 Playback: Rotate/Mirror/Flip/Save



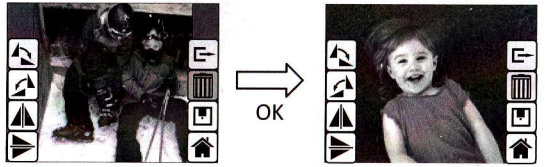
If user wants to Rotate +90 degrees by OK button, the image will be rotate +90 degrees and cursor will remains at Save. Press OK button again to save modified result and next picture will be shown (N+1). For continuously Rotate +90 degrees, move cursor to Rotate again and press OK. (Same for Rotate -90, Mirror, and Flip function)

2.6 Playback: Exit



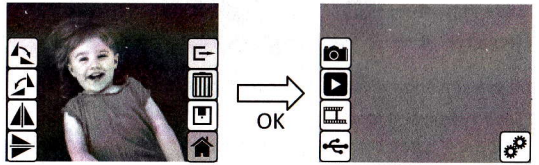
Once user select the EXIT function in edit menu, the display will go back to slide show starting with the current picture in internal memory or SD card without saving any change of present picture

2.7 Playback: Delete



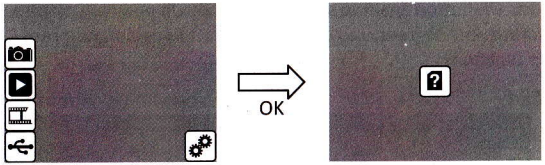
Delete will delete the present selected picture and next picture will be shown (N+1). Cursor goes to Exit icon. If user intend to process continuously delete, just move to delete icon again and press OK to confirm.

2.8 Playback: Home



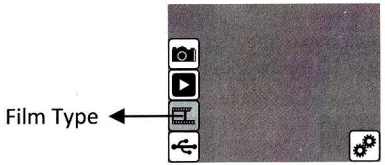
Go back to main menu, press OK button when select Home icon

2.9 Playback: No Picture



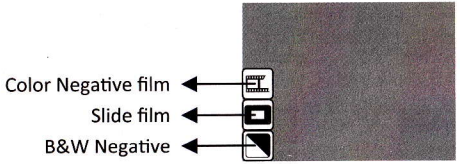
If there's no picture inside internal memory or SD card when enter playback mode, a No picture symbol will show on display.

3. Film Type



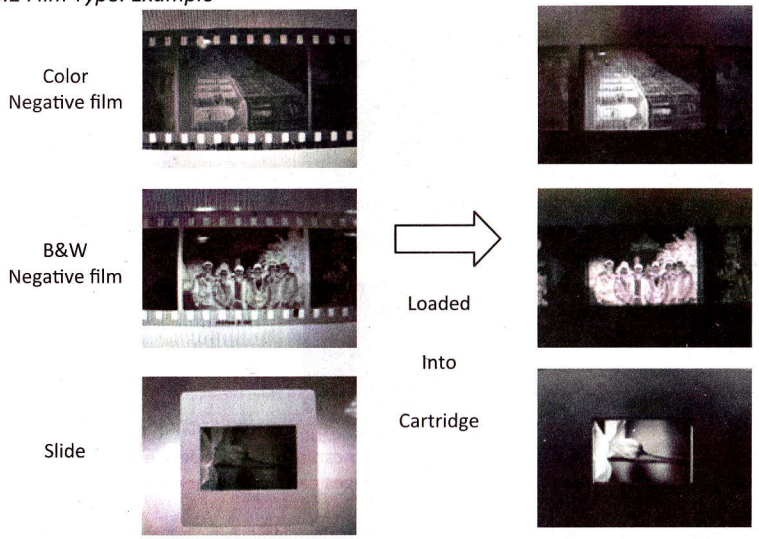
Change film type definition by enter Film Type menu when power on FS-II-14MB-2.4 or access the main menu by Home icon if during operation. Press down button for Film Type and press OK to confirm.

3.1 Film Type: Select Film Type

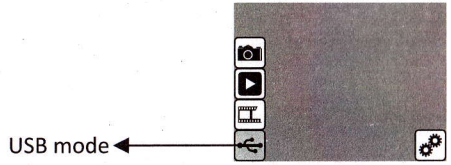


- *Negative film: select Negative film when cartridge loaded with negative film*
- *Slide: select Slide type when load slide in holder*
- *B&W film: select B&W when cartridge loaded with Black&White negative film*

3.2 Film Type: Example

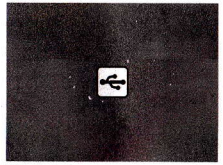


4. USB Mode



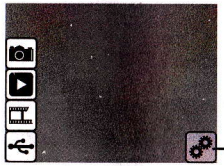
After finished capture, user can download the stored images from internal memory or SD card to PC by selecting USB mode. Press OK button when connect USB cable to PC, FS-II-14MB-2.4 becomes a mass storage device. User can review or edit images once PC detected the external storage device. Or just take out the SD card from device into PC to read the images directly.

4.1 USB Mode: Status



Once user select USB mode, FS-II-14MB-2.4 becomes a mass storage device and then a status icon shows on display, then user can find an external USB disk device from my computer and review the images in internal memory or SD card with PC.

5. Setting Mode.



The setting mode covers TV out and format option. User can connect the device to TV and finish the operation with TV display. Moreover, the scanned images can be playback on TV display to share with family.

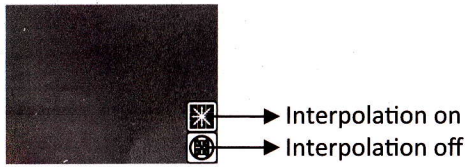
If the SD card was formatted by the other devices and not readable by scanner, user can apply the format function in scanner to correct required format.

5.1 Setting Mode menu

- *Interpolation: Turn ON and OFF interpolation to 3300dpi resolution*
- *TV out: select NTSC or PAL according to required interface*

- *Format: format internal memory or SD card*
- *Exit: returns to main menu*

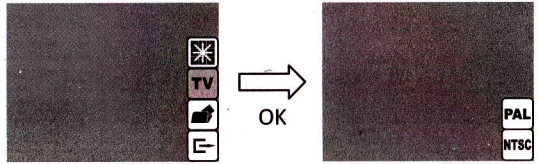
5.2 Setting: Interpolation



User can have the option to use the interpolation method to increase the picture resolution to 3300dpi. Use Up and Down key to the interpolation selection and press OK button to interpolation menu. NOTE: the capture mode takes a few second longer in image processing while the interpolation function is turned on.

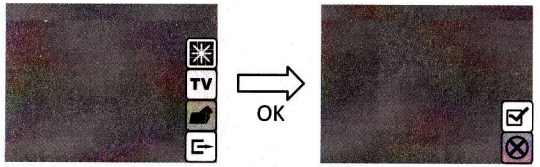
In the interpolation menu, user can turn on and off the function by using the Up and Down key to the selection and press OK button to proceed.

5.3 Setting: TV out



When user want to switch the display from on device LCD to TV display, user can connect device to TV and select PAL or NTSC as required in TV out menu by OK button. Then, the TV display will show the same option for scanning operation. Or directly enter playback mode to slide show captured images on TV.

5.4 Setting: Format



If the internal memory or SD card requires format by scanner, user can enter format mode by press OK button. The default setting will be cancel format. User can press OK button again to cancel the format or select confirm icon to confirm format the memory.

Note

If there's no SD card inside device, the internal memory will be formatted once process Format. Instead, if SD card is inserted in device, SD card will be formatted.

Goodbye page

V. Specification

Image Sensor:	14 mega CMOS sensor
Lens:	Precision TM Glass Element Fixed Focus
LCD:	2.4'' Color TFT LCD
Internal memory:	20MB NAND Flash (for saving images)
Focus Range:	Fixed focus
Exposure Control:	6 levels of control
Color Balance:	6 levels of control
Scan Quality:	3,300 dpi
Data Conversion:	10 bits per color channel
Scan Method:	Single pass
Light Source:	Back light (3 white LEDs)
Interface:	USB 2.0, TV-out (video 3.5mm jack)
USB Configuration:	Mass Storage Device Class/MSDC
Power:	5V adapter, or USB power
Dimensions:	100x90x168mm
Weight:	0.41kg
External memory:	SD/MMC compatible